

Referring next to FIG. 17 a ski boot 220 is shown stepping into a prior art downhill ski binding 221 which consists of a toe piece 222 and a heel piece 223. The dotted lines of the ski boot 220 show the traditional downward movement of the ski boot 220 for locking into the ski binding 221. The toe piece 222 is screwed into the ski 224 in a known manner. The proper mounting distance between the toe piece and heel piece for boot 220 is shown as D₂ (distance for skiing).

A marked up copy of the above-referenced replacement paragraphs is attached per rule 37 CFR § 1.121(b)(iii).

In the Claims:

For the convenience of the Examiner, all claims, including those not changed by the present amendment, have been included. A marked up copy of the claims is attached per rule 37 CFR § 1.121(c)(1)(ii).

1. (Amended) A ski binding release system comprising:
 - a track for receiving a ski binding member;
 - a remote transmitter;
 - a receiver mountable on a ski with an actuator connected to the track; wherein the remote transmitter activates the receiver which in turn activates the actuator to move the track, thereby moving the ski binding member;
 - wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski;
 - wherein the flat rigid member slides in the anchors;
 - wherein the flat rigid member is controlled by the actuator; and
 - wherein the actuator further comprises a spring mechanism having a housing containing a main spring powering a rod connected to the track and a receiver to receive the remote signal and release the actuator from a ski position to a release position.

2. (Amended) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:

a track connected to the heel piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;

wherein the actuator further comprises a compressed gas cylinder having a piston connected to the track; and

wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the compressed gas cylinder, thereby allowing a spring to move the actuator from a ski position to a release position.

3. (Amended) A ski binding release system comprising:

a toe and a heel piece;

a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal;

said mechanism having a single housing which contains a connector to a track and having a spring which releaseably biases the track against a binding member, and having a receiver to receive a remote signal to release the spring; and

said track suited to receive either the toe or the heel piece.

4. (Amended) A ski binding release system comprising:

a toe and a heel piece designed to have a mounting distance therebetween to secure a ski boot;

an extension mechanism to release the ski boot by enlarging the mounting distance on demand from a remote signal;

said extension mechanism having a single housing to contain a spring, a connector to a track which is biased by the spring, and a receiver which controls a release of the spring; and

wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski, wherein the flat rigid member slides in the anchors controlled by the actuator.

5. (Amended) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:

a track connected to the toe piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;

wherein the actuator further comprises a single housing containing a spring loaded piston having a ski position with the spring compressed, and a release position with the spring released, said piston having a locking groove, a locking pin removably engagable in the locking groove, and a receiver to receive the remote signal and power an electronic device to disengage the locking pin, thereby releasing the ski boot by causing the toe piece to move to a larger distance from the heel piece.

6. (Cancel)

7. (Cancel)

8. (Amended) The improvement of claim 3, wherein the housing further comprises a sliding shaft having a groove, a locking pin pivotally engaged in the groove and an electronically activated trigger to release the locking pin when the receiver powers a solenoid to move the trigger.

9. (Amended) The improvement of claim 8 further comprising a transmitter contained in a ski pole to activate the receiver.

10. (No change) The improvement of claim 9, wherein the transmitter further comprises a safety switch to prevent an accidental transmission.

11. (Amended) The improvement of claim 3 further comprising a mounting plate to house the toe piece, the track, the heel piece and the actuator, said mounting plate having a hole for mounting to a ski.

12. (Cancel)

13. (Cancel)

14. (Amended) The improvement of claim 2, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.

15. (Amended) The improvement of claim 2, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.

16. (Amended) The improvement of claim 2 further comprising a CO₂ cartridge connected to the compressed gas cylinder to provide a source of compressed gas.

17. (No change) The improvement of claim 16 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

18. (Cancel)

19. (Cancel)

20. (Amended) The system of claim 5 further comprising a wedge to receive a lever which can cock the spring loaded piston to the ski position.

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